

4.2.B. 0604000202 (Garrison Fork).

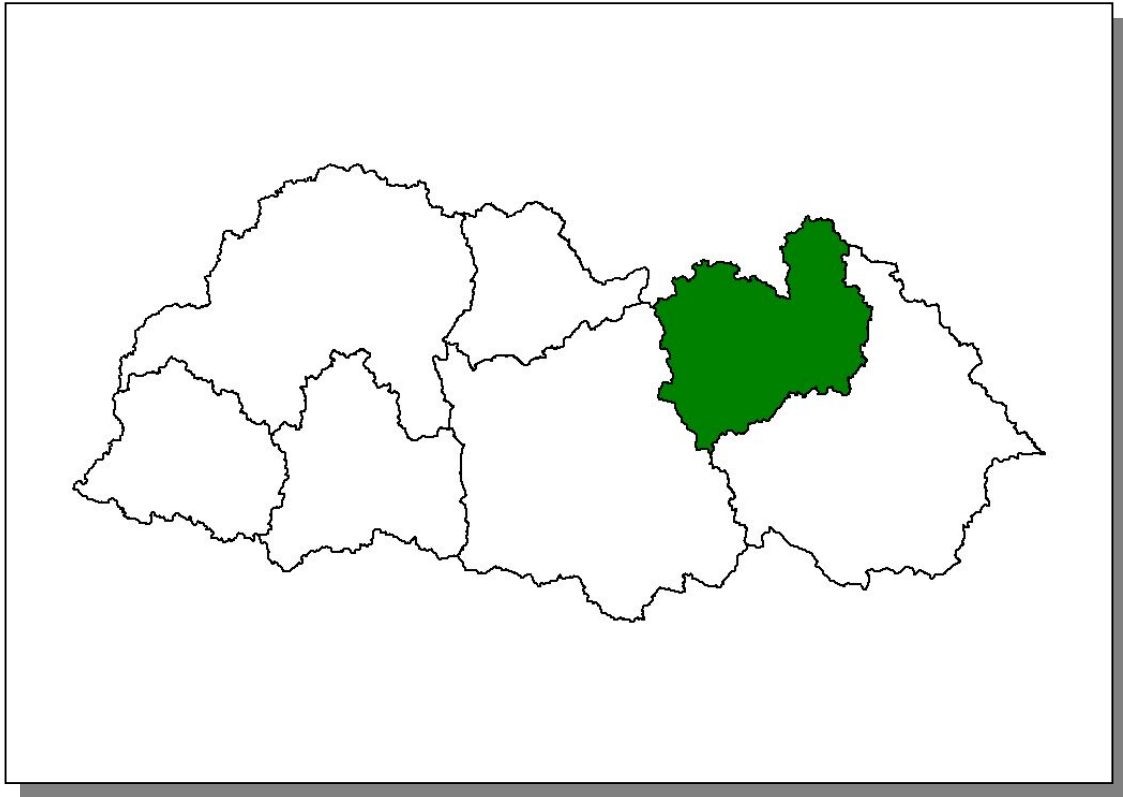


Figure 4-16. Location of Subwatershed 0604000202. All Upper Duck River HUC-10 subwatershed boundaries are shown for reference.

4.2.B.i. General Description.

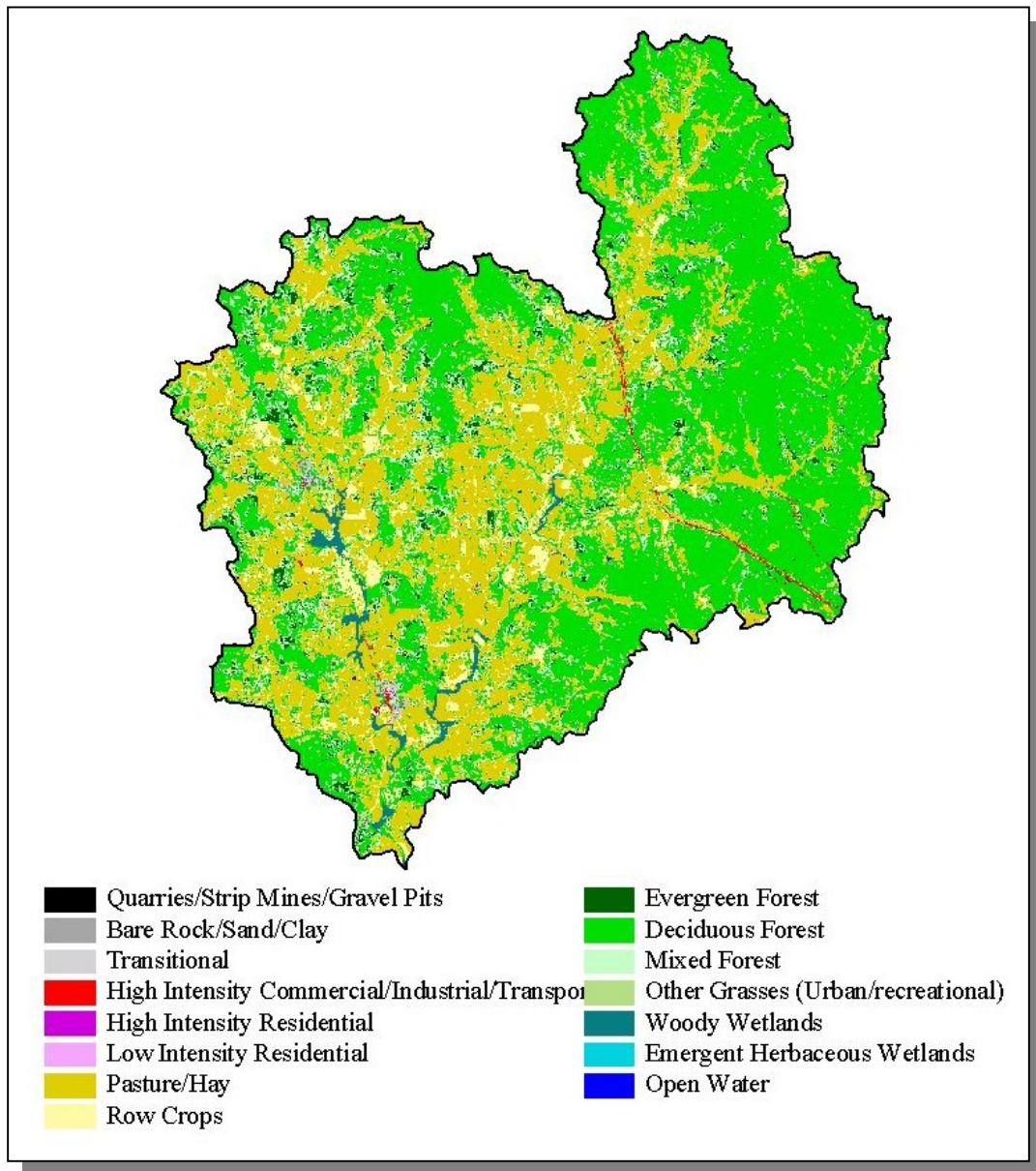


Figure 4-17. Illustration of Land Use Distribution in Subwatershed 0604000202.

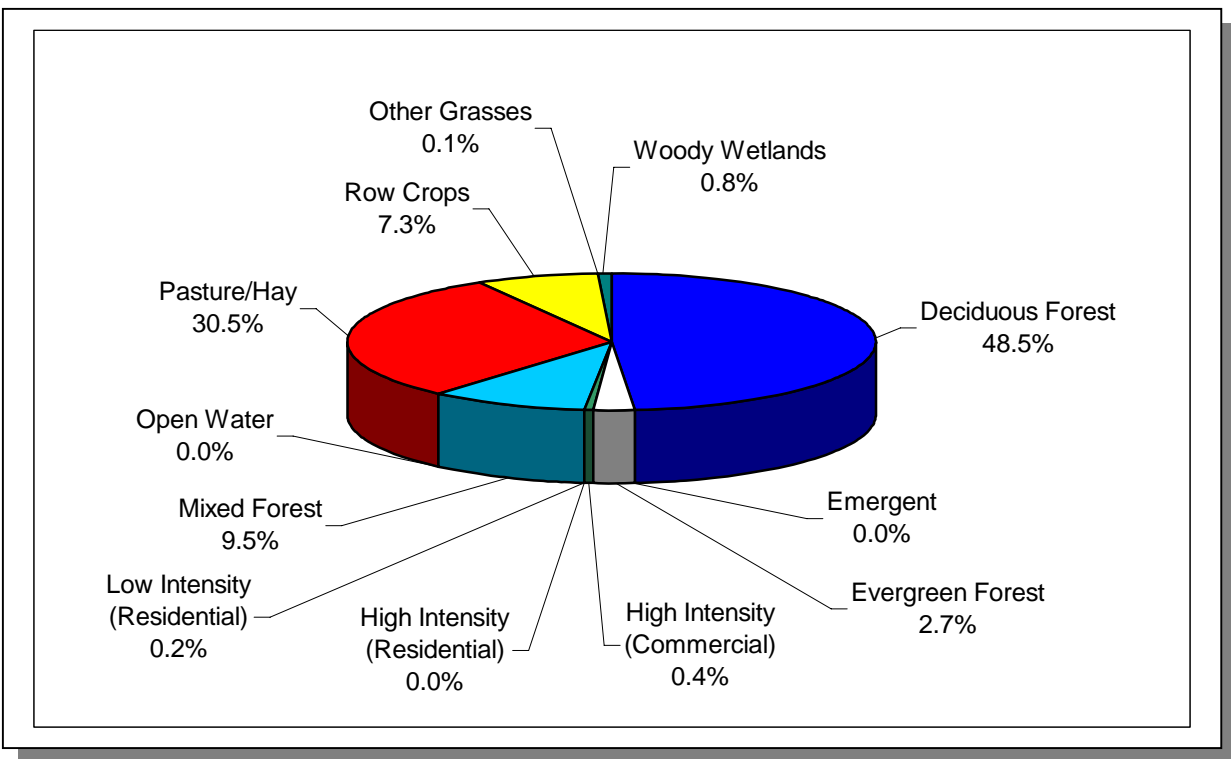


Figure 4-18. Land Use Distribution in Subwatershed 0604000202. More information is provided in Appendix IV.

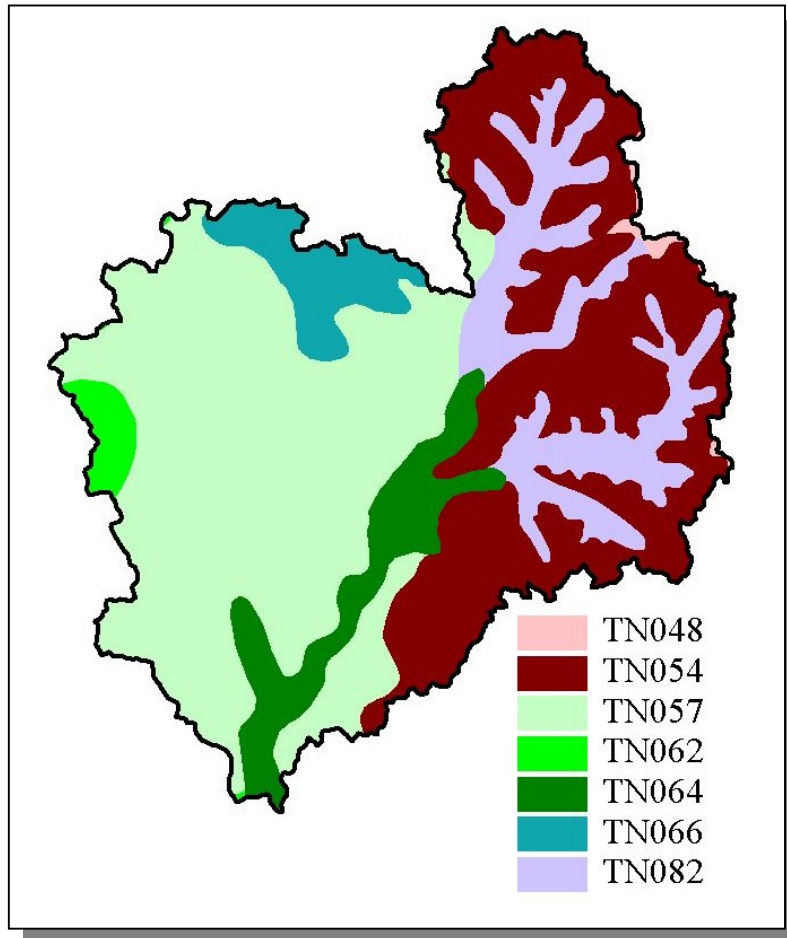


Figure 4-19. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000202.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN048	8.00	C	1.38	5.06	Silty Loam	0.42
TN054	0.00	C	3.04	4.84	Loam	0.32
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN064	7.00	C	1.19	5.82	Silty Loam	0.37
TN066	0.00	B	2.62	4.75	Loam	0.28
TN082	0.00	B	1.63	5.47	Loam	0.34

Table 4-10. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000202. More information is provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Bedford	30,411	34,203	37,586	17.35	5,277	5,934	6,521	23.6
Coffee	40,339	45,347	48,014	10.39	4,190	4,710	4,987	19.0
Rutherford	118,570	159,987	182,023	0.4	479	646	735	53.4
Totals	189,320	239,537	267,623		9,946	11,290	12,243	23.1

Table 4-11. Population Estimates in Subwatershed 0604000202.

			NUMBER OF HOUSING UNITS			
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Bell Buckle	Bedford	324	136	129	7	0
Wartrace	Bedford	496	233	200	33	0
Totals		820	369	329	40	0

Table 4-12. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0604000202.

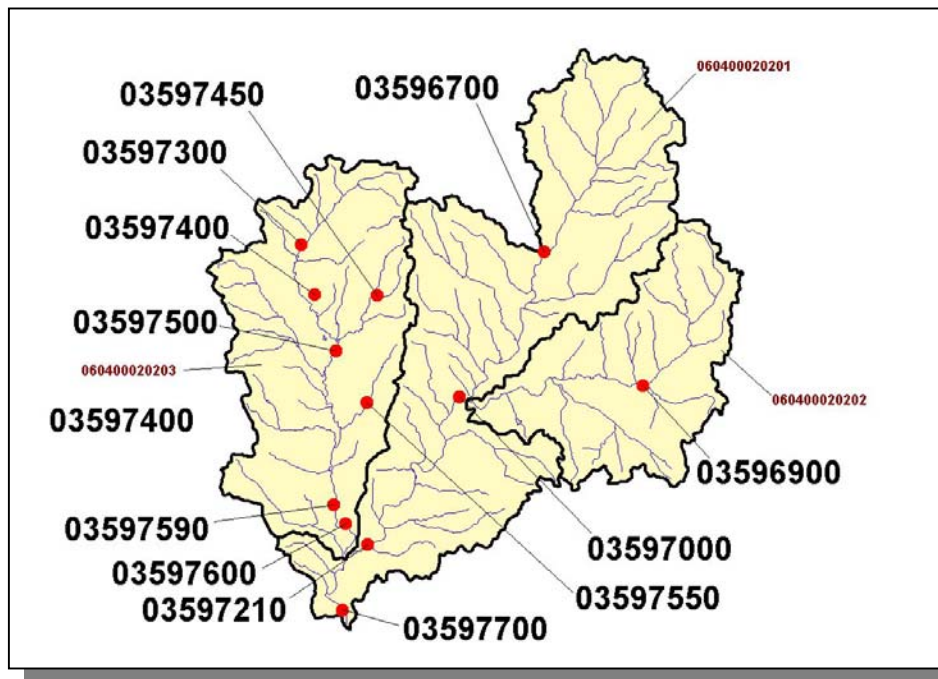


Figure 4-20. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000202. Subwatershed 060400020201, 060400020202, and 060400020203 boundaries are shown for reference. More information is provided in Appendix IV.

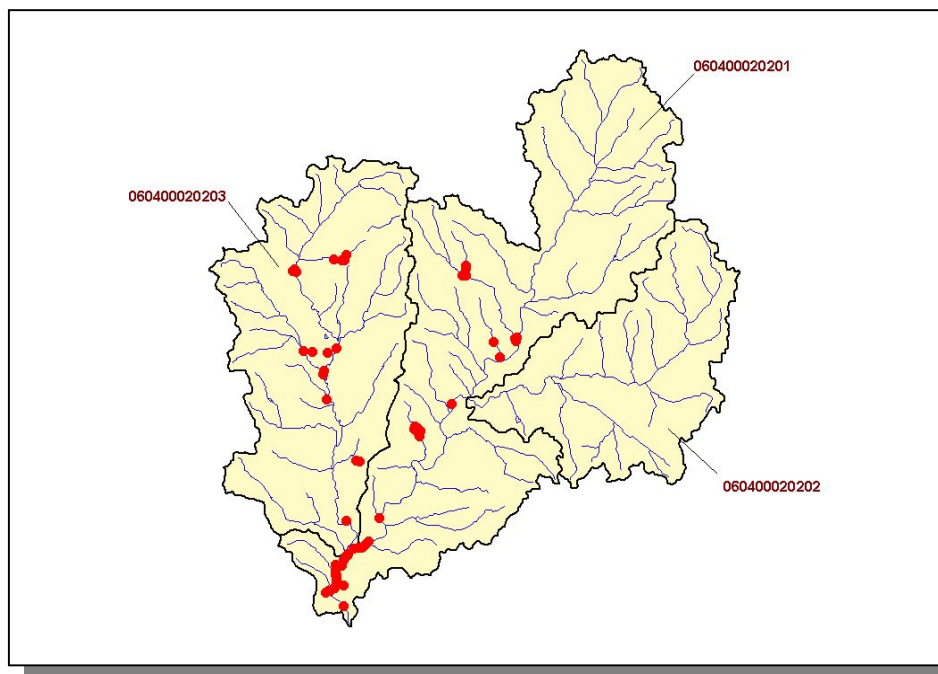


Figure 4-21. Location of STORET Monitoring Sites in Subwatershed 0604000202. Subwatershed 060400020101, 060400020102, and 060400020103 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.B.ii. Point Source Contributions.

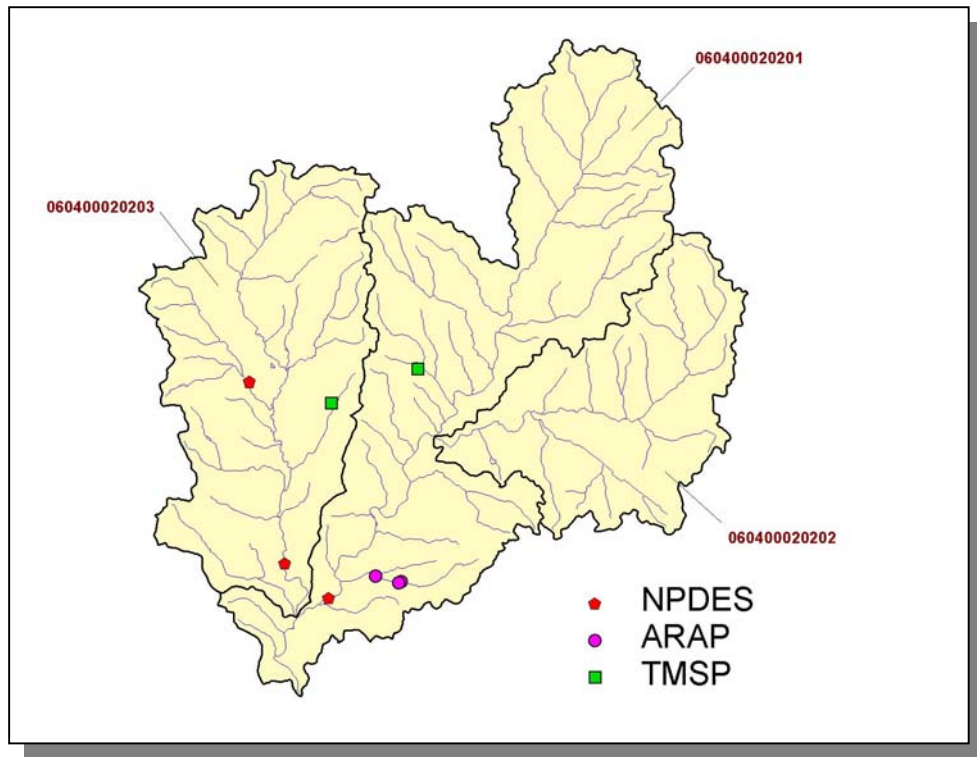


Figure 4-22. Location of Active Point Source Facilities in Subwatershed 0604000202. Subwatershed 0604000202, 0604000202, and 0604000202 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

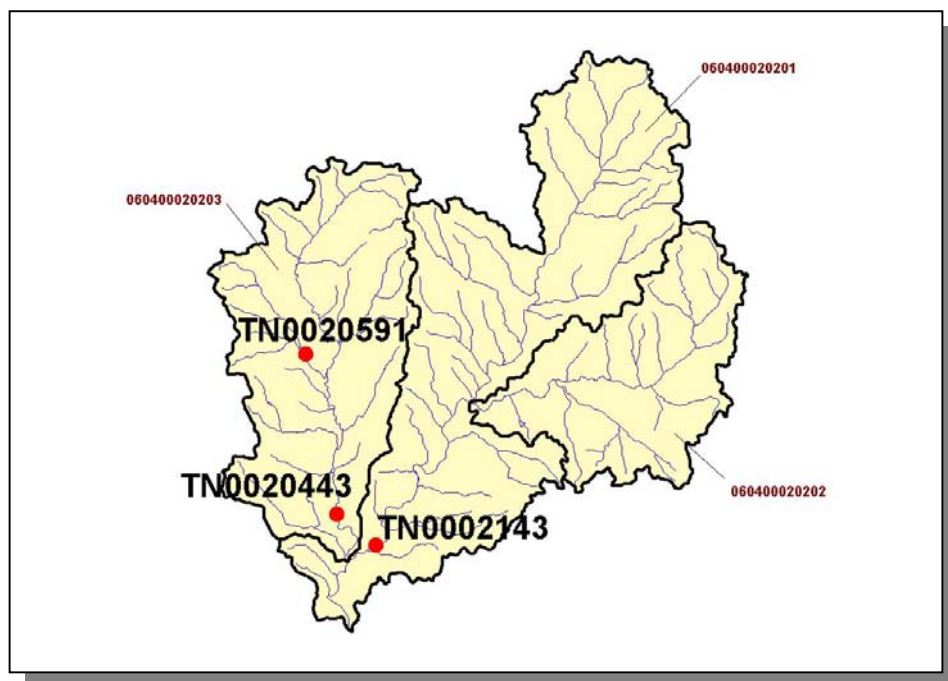


Figure 4-23. Location of NPDES Facilities in Subwatershed 0604000202. Subwatershed 0604000202, 0604000202, and 0604000202 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

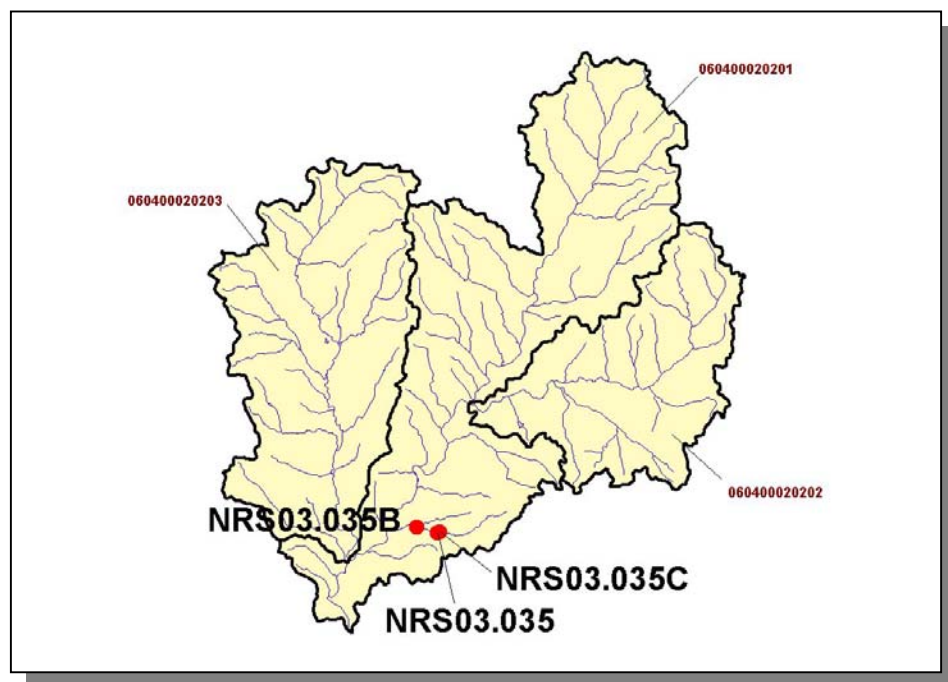


Figure 4-24. Location of ARAP Sites (Individual Permits) in Subwatershed 0604000202. Subwatershed 0604000202, 0604000202, and 0604000202 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

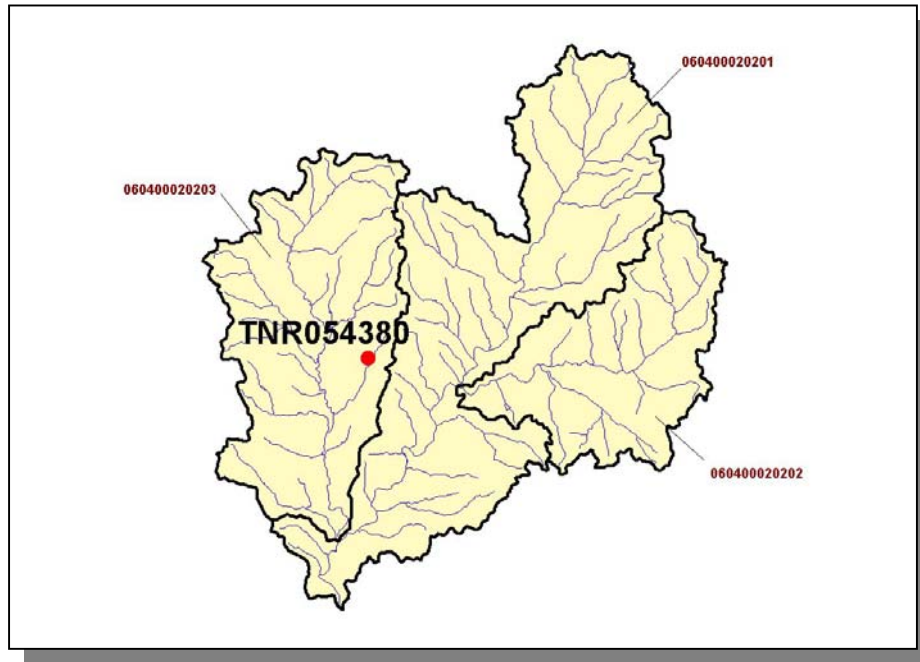


Figure 4-25. Location of TMSP Facilities in Subwatershed 0604000202. Subwatershed 0604000202, 0604000202, and 0604000202 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.B.ii.a. Dischargers to Water Bodies Listed on the 2002 303(d) List

There is one NPDES facility discharging to water bodies listed on the 2002 303(d) list in Subwatershed 0604000202:

- TN0020591 (Bell Buckle STP) discharges to Bell Buckle Creek @ RM 0.8

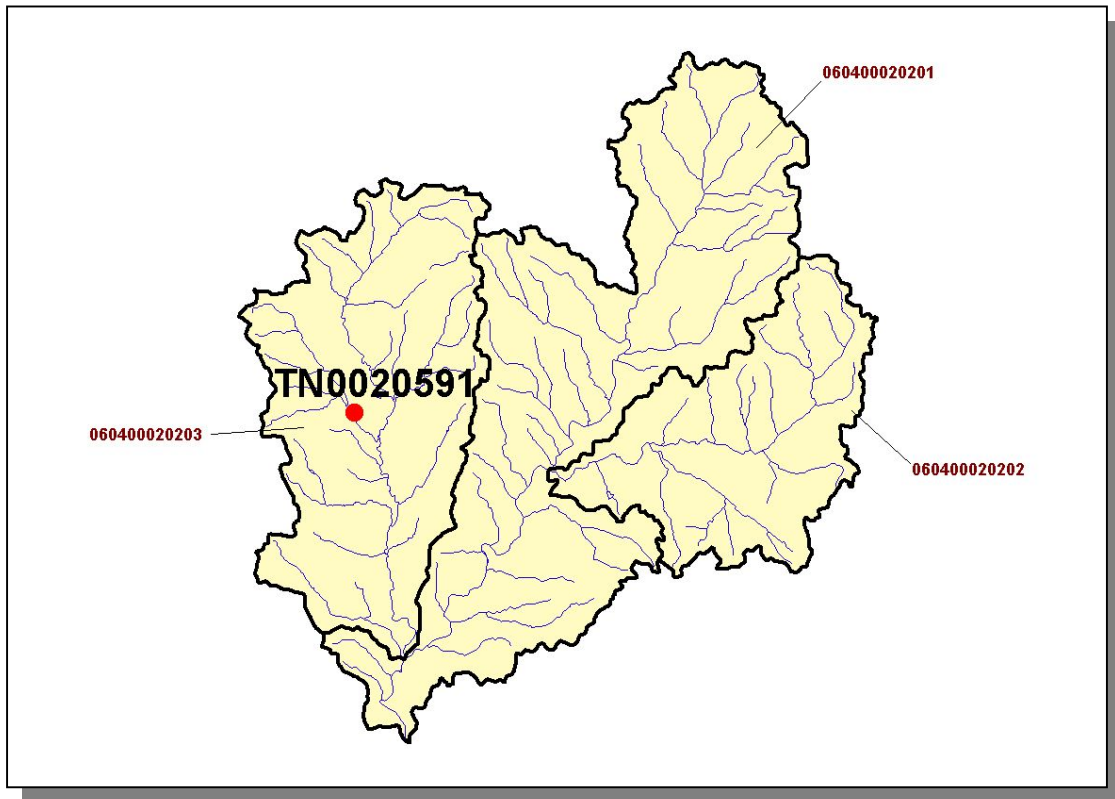


Figure 4-26. Location of NPDES Dischargers to Water Bodies Listed on the 2002 303(d) List in Subwatershed 0604000202. Subwatershed 0604000201, 0604000202, and 0604000203 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0020591			0	0	0.15

Table 4-13. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000202. Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	CBOD ₅	FECAL COLIFORM	E. COLI	NH ₃	TRC	TSS	SETTLEABLE SOLIDS	DO	pH
TN0020591	X	X	X	X	X	X	X	X	X

Table 4-14. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2002 303(d) List in Subwatershed 0604000202. CBOD₅, Carbonaceous Biochemical Oxygen Demand (5-Day); TRC, Total Residual Chlorine; TSS, Total Suspended Solids.

4.2.B.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (layers)	Chickens (Broilers Sold)	Hogs	Sheep
6,276	13,411	949	18	5,415,250	982	96

Table 4-15. Summary of Livestock Count Estimates in Subwatershed 0604000202.
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Bedford	74.6	74.6	0.5	1.3
Coffee	114.4	114.4	2.8	12.7
Total	189.0	189.0	3.3	14.0

Table 4-16. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0604000202.

CROPS	TONS/ACRE/YEAR
Legumes (Pastureland)	0.12
Grass (Pastureland)	0.98
Grass (Hayland)	1.05
Legumes (Hayland)	0.32
Legumes, Grass (Hayland)	0.42
Grass, Forbs, Legumes (Mixed Pasture)	0.36
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	6.52
Cotton (Row Crops)	4.07
Soybeans (Row Crops)	9.51
Wheat (Close-Grown Cropland)	6.32
Other Vegetable and Truck Crop	4.37
Summer Fallow (Other Cropland)	4.60
Other Cropland not Planted	6.68
Berry (Horticulture)	4.60
Conservation Reserve Program Lands	0.26
Non-Agricultural Land Use	0.00
Farmsteads and Ranch Headquarters	0.10

Table 4-17. Annual Estimated Total Soil Loss in Subwatershed 0604000202.